

AUTOMATIC CAT FLAP

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**A project report submitted in partial fulfillment of the requirements for the award of the
degree of Diploma of Electrical Engineering (Electronics)**

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APRIL 2013


DECLARATION

“We declare that this report entitled “**AUTOMATIC CAT FLAP**” is the result of our own group research except as cited in the references. The report has not been accepted for any degree and is not concurrently submitted in candidature of any other degree”.

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ABSTRACT

Automatic Cat Flap is one of the projects that can help our pets to enter and exit the house safely and quick as it can without human assistant. Based on the observation, people had some problem when manage their pets. For example their pets were threatening by others animal and could be danger the pet it selves. The system of the **Automatic Cat Flap** is to detect the magnet at the cat's collar with sensing coil. When the cats enter through the flap, the solenoid will release it shaft and the flap opened automatically for several second. It will lock back and reed switch gives an alert to the household with the melody sound. This system was similar when the cats exit from the flap. We used 2 IC which is CA3130A on the cat flap circuit and M 3485 on the melody circuit. This project used 12V and 9V supply to operate the cat flap circuit. While at the melody circuit we used 3V supply to operate.

ACKNOWLEDGEMENT

Alhamdulillah, thanks to God and His blessings, we have successfully done with our Final Year Projects 2 for diploma courses in Electrical Engineering (Electronics). Firstly, we want to say thanks to our supervisor, Puan Siti Aishah Bt. Che Kar, the patience, help and support us during the progression of Final Year Project 2. To our parents, thank you very much for their support and very understanding, especially in budget for us to buy an electric component. Also, thank you to our friends, lecturers and those who helped us throughout the course of this project completion. Without all their help and support, we can't complete our project until the end of the exhibition.

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